FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV 7-05)			ATTORNEY'S DOCKET NUMBER						
TRANSMITTAL LETTER TO THE UNITED STATES			045331/314982						
	CTED OFFICE (DO/EC LING UNDER 35 U.S.		U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)						
CONCERNING A F	LING UNDER 33 U.S.	C. 371	10/2891/2						
INTERNATIONAL APPLICATION NO.	INTERNATIONA	AL FILING DATE	PRIORITY DATE CLAIMED						
PCT/US2004/013747	4/4/04		2/11/04						
TITLE OF INVENTION									
STEM CELL POPULATIONS AND	METHODS OF USE								
APPLICANT(S) FOR DO/EO/US									
Tracy Gentry, Sandra J. Foster, Andrew E. Balber									
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:									
1. A This is a FIRST subr	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.								
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). This submission must include items (5), (6), (9) and (21) indicated below.									
4. The US has been elec	The US has been elected (Article 31). (Check box if a Demand was filed in PCT.)								
5. 🛛 A copy of the Interna	tional Application as filed	(35 U.S.C. 371(c)(2))							
		ly if not communicated by the Int	ernational Bureau).						
	been communicated by the ot required, as the applicati	e International Bureau. ion was filed in the United States I	Receiving Office (RO/US).						
	tached hereto.		(-),-						
		under 35 U.S.C. 154(d)(4).							
7. Amendments to the c	aims of the International A	application under PCT Article 19	(35 U.S.C. 371(c)(3))						
	a. are attached hereto (required only if not communicated by the International Bureau).								
	 b.								
	e not been made and will n		· ·						
8. An English language	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).								
9. An oath or declaration	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).									
Items 11. To 20. below concern document(s) or information included:									
11. An Information Discl	An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.								
12. An assignment docum	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.								
13. A FIRST preliminary	A FIRST preliminary amendment.								
☐ A SECOND or SUBS	A SECOND or SUBSEQUENT preliminary amendment.								
14. An Application Data	An Application Data Sheet under 37 CFR 1.76								
15. A substitute specifica	A substitute specification.								
16. A power of attorney a	A power of attorney and/or change of address letter.								
17. A computer-readable	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.								
18. A second copy of the	A second copy of the published international application under 35 U.S.C. 154(d)(4).								
19. A second copy of the	English language translation	on of the international application	under 35 U.S.C. 154(d)(4).						
20. Other items or inform	Other items or information:								

U.S. APPLICATION NO. (Prove, 123 OF 91.1 73 INTERNATIONAL APPLICATION NO. PCT/US2004/013747					ATTORNEY'S DOCKET NUMBER 045331/314982		
☐ The following fees have been submitted:						Calculations	PTO USE ONLY
21. Basic national			-	-	 <u></u> .	. \$300	
22. \(\sigma\) Examination fee (37 CFR 1.492 (c))						200	
(If the written opinion	-		ne international prelin	ninary examir	nation report		
prepared by the IPEA/US indicates all claims satisfy provisions of PCT Article 33(1-4)							
All other situations	<u></u>						
23. Search fee (37 CFR 1.492(b))						400	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$ 0							
Search fee (37 CFR 1.4							
to the USPTO as an International Searching Authority							
International Search Report prepared by an ISA other than the US and provided to the Office							
or previously communicated to the US by the IB\$400							
All other situations							
		F 21, 22 and		=			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in an electronic medium) (37 CFR 1.492(j))							
The fee is \$250.00 for	each addition				•		ļ
Total Sheets	Extra Sheets		r of each additional 50 (round up to a whole		Rate		
- 100 =						\$	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration later the date of commencement of the national stage (37 CFR 1.492(h)).						\$	
CLAIMS		BER FILED	NUMBER EXTRA	RATE			
Total Claims	96	-20 =	76	X \$ 50.00		\$ 3,800.00	
Independent Claims	5	- 3 =	2	X \$200.00		\$ 400.00	
MULTIPLE DEPENDEN	T CLAIM(S)			+ \$360.00		\$ 5100.00	
Applicant claims s			CER 1.27 The fees			\$ 5,100.00	
reduced by 1/2.	mail emity si	iatus. See 37	CFK 1.27. THE ICES	i iliuicaicu aix	ove are	\$ 2,550.00	
reduced by 11=.				SUBTOTAL	[, =	\$ 2,550.00	
Processing fee of \$130.	.00 for fumi	shing the Eng	elish translation later			-,	
earliest claimed priority						\$	
			TOTAL NAT			\$ 2,550.00	
Fee for recording the e							
accompanied by an app	ropriate cov				erty +	\$ 2,550,00	
			TOTAL FEES ENCL	OSED =		\$ 2,550.00	
						Amount to be Refunded	s
						Amount to be	S
						Charged	
	heck in the an		to cover the above fees				· ·
						550.00 to cover the a	
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 16-0605.							
Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.							
SEND ALL CORRESPONDENCE TO: W. Marray Spruil Date of Deposit: August 11							42 US
REGISTRATION NUM	ARER 32 94	<u> </u>	_	I herehy ce	rtifi, that this nan	er or fee is being deposite	ed with the United States
ALSTON & BIRD LL		3					e" service under 37 CFR
Bank of America Plaza				1.10 on the	date indicated ab	ove and is addressed to N	Mail Stop PCT, Attn:
101 South Tryon Street, Suite 4000 DO/US (PTO) Commission						450, Alexandria, VA	
Charlotte, NC 28280-4000						2	
Tel Raleigh Office (919) 862-2200 Fax Raleigh Office (919) 862-2260 Polly P. Burdon					musu	-	
Charlotte, NC 28280-4000 Tel Raleigh Office (919) 862-2200 Fax Raleigh Office (919) 862-2260 Customer Number 00826 Customer Number 00826							
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